

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2009 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including DWR Erosion Survey**

**San Joaquin River Basin**

<b>RD2062</b>	Overall LMA Rating	Total LMA Miles				
<b>Reclamation District No. 2062 Stewart</b>	<b>U</b>	<b>12.35</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.01		0.01	0.08%		
Encroachments	1.40		1.40	11.34%		
Animal Control	0.07		0.07	0.57%		
Slope Stability	0.01		0.01	0.08%		
Crown Surface / Depressions / Rutting	2.55		2.55	20.65%		
DWR Erosion Survey	0.16	0.11	0.60	4.86%		
<i>LMA Totals:</i>	4.20	0.11	4.64	37.57%	0.00	0.00

  

<b>Unit No. 01 San Joaquin River</b>	Overall Unit Rating	Total Unit Miles				
	<b>A</b>	<b>2.69</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Slope Stability	0.01		0.01	0.37%		
DWR Erosion Survey	0.03		0.03	1.12%		
<i>Unit Totals:</i>	0.04	0.00	0.04	1.49%	0.00	0.00

  

<b>Unit No. 02 Paradise Cut</b>	Overall Unit Rating	Total Unit Miles				
	<b>U</b>	<b>4.03</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Encroachments	1.40		1.40	34.74%		
Crown Surface / Depressions / Rutting	2.54		2.54	63.03%		
DWR Erosion Survey	0.11		0.11	2.73%		
<i>Unit Totals:</i>	4.05	0.00	4.05	100.50%	0.00	0.00

  

<b>Unit No. 03 Old River</b>	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.			
	<b>M *</b>	<b>5.63</b>				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
Vegetation	0.01		0.01	0.18%		
Animal Control	0.07		0.07	1.24%		
Crown Surface / Depressions / Rutting	0.01		0.01	0.18%		
DWR Erosion Survey	0.02	0.11	0.46	8.17%		
<i>Unit Totals:</i>	0.11	0.11	0.55	9.77% *	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2009 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

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	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2009 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.69
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>A</b>	
Date of Inspection	4/20/2009		10/29/2009	
DWR Inspector	Richard Willoughby		John Paasch	
Accompanied By			Michael Moncrief MBK Engineers	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

**Comments**

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports  
3310 El Camino Avenue, Room LL-30  
Sacramento, CA 95821-9000

**X**

Signature of LMA Representative

Date

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 2062 Stewart**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River						Left	2.69	10/30/2009 12/10/2009	John Paasch	
LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	0.02	0.11	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.807292 ° -121.327692 °	37.806495 ° -121.326446 °	940
2	0.13	0.19	Earthen Levee	Vegetation	CR	C	Control annual grass and weeds on the levee slopes and easements.	37.806345 ° -121.326270 °	37.805735 ° -121.325536 °	939
3	0.28	0.33	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.804850 ° -121.324241 °	37.804558 ° -121.323555 °	938
4	0.43	0.43	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Locust Plant	37.804567 ° -121.321733 °	37.804567 ° -121.321733 °	937
5	0.49	0.49	Earthen Levee	Animal Control	CR	C	Exterminate rodents and backfill and compact or grout burrows.	37.804808 ° -121.320709 °	37.804808 ° -121.320709 °	936
6	0.65	0.68	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.805360 ° -121.317920 °	37.805344 ° -121.317501 °	935
7	0.72	0.72	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	37.805203 ° -121.316656 °	37.805203 ° -121.316656 °	934
8	0.74	0.80	Earthen Levee	Vegetation	CR	C	Control annual grass and weeds on the levee slopes and easements.	37.805141 ° -121.316436 °	37.804838 ° -121.315464 °	933
9	0.81	0.81	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	37.804747 ° -121.315199 °	37.804747 ° -121.315199 °	932
10	0.91	0.99	Earthen Levee	Vegetation	CR	C	Control annual grass and weeds on the levee slopes and easements.	37.804003 ° -121.313752 °	37.802938 ° -121.313610 °	931
11	0.91	0.91	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: recommend removal of site from list, per CLRO CES Evaluation 2008 Report; landside ground surface has been raised to the height of the levee crown; site # same as RM54.34, LM1.08 previously rated "M" [2009 SiteID:RD2062U1RM54.14]	37.804080 ° -121.314060 °	37.804080 ° -121.314060 °	2
12	1.01	1.03	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.802670 ° -121.313601 °	37.802323 ° -121.313601 °	930
13	1.09	1.16	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.801497 ° -121.313683 °	37.800379 ° -121.313708 °	929
14	1.34	1.44	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.797972 ° -121.313700 °	37.796594 ° -121.314175 °	928
15	1.63	1.69	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.794150 ° -121.315449 °	37.793225 ° -121.315198 °	927

**\* Location**

LS : Land Side  
WS : Water Side  
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**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 2062 Stewart**

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 San Joaquin River						Left	2.69	10/30/2009 12/10/2009	John Paasch	
LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
16	1.82	1.94	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.792024 ° -121.313579 °	37.792008 ° -121.311356 °	926
17	1.99	1.99	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level. Inspector Comments: Large Oak with hanging branch	37.792332 ° -121.310757 °	37.792332 ° -121.310757 °	925
18	2.16	2.16	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level. Inspector Comments: Willows	37.794138 ° -121.308868 °	37.794138 ° -121.308868 °	924
19	2.23	2.23	Earthen Levee	Slope Stability	WS	M	Repair the levee slope damaged by foot traffic and prevent access where possible.	37.793438 ° -121.308031 °	37.793438 ° -121.308031 °	923
20	2.24	2.26	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: On berm; dense vegetation surrounding site; landside ground surface raised to height of levee crown; recommend removal of site from list, per CLRO CES Evaluation 2008 Report; site # same as RM55.75, LM2.25; previously rated "U" [2009 SiteID:RD2062U1RM55.57]	37.793120 ° -121.308110 °	37.793120 ° -121.308110 °	1
21	2.25	2.43	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.793037 ° -121.307908 °	37.790698 ° -121.308622 °	922
22	2.59	2.62	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.788456 ° -121.308772 °	37.788008 ° -121.309387 °	921

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2009 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	4.03
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	4/20/2009		10/29/2009	
DWR Inspector	Richard Willoughby		John Paasch	
Accompanied By			Michael Moncrief MBK Engineers	

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Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut				Right	4.03	10/30/2009 12/10/2009	John Paasch

  

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	2.54	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.777710 ° 37.777710 °	37.801285 ° -121.367305 °	3
2	2.54	3.94	Earthen Levee	Encroachments	LS	M	Agricultural tilling Inspector Comments: Disking of the levee slope is the district's vegetation control method. Over time this could degrade the levee and create an integrity issue.	37.801211 ° -121.367142 °	37.808230 ° -121.390260 °	6
3	2.81	2.81	Earthen Levee	Encroachments	WS	C	Garbage	37.803502 ° -121.371352 °	37.803502 ° -121.371352 °	4
4	3.27	3.28	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: Damage most likely caused by agricultural equipment during clearing operation; maintenance issue [2009 SiteID:RD2062U2RM2.14]	37.804604 ° -121.379454 °	37.804604 ° -121.379454 °	2
5	3.29	3.29	Earthen Levee	Encroachments	LS	C	Pipe Inspector Comments: Remove abandoned pipe from landside slope.	37.804742 ° -121.379820 °	37.804742 ° -121.379820 °	5
6	3.44	3.53	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: 1' Vertical scarp on toe; damage most likely caused by farming equipment during clearing operation; maintenance issue [2009 SiteID:RD2062U2RM1.94]	37.805422 ° -121.383173 °	37.805422 ° -121.383173 °	1
7	3.90	3.90	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.807728 ° -121.389822 °	37.807728 ° -121.389822 °	7

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2009 Levee Inspection Results**

**Reclamation District No. 2062 Stewart**

Waterway			Bank	Unit Miles
Unit No. 03 Old River			Left	5.63

  

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>M</b>	
Date of Inspection	4/20/2009		10/29/2009	
DWR Inspector	Richard Willoughby		John Paasch	
Accompanied By			Michael Moncrief MBK Engineers	

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**X**

Signature of LMA Representative

Date



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River				Left	5.63	10/30/2009 12/10/2009	John Paasch

  

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.23	0.32	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009: No change observed; combined with RM 30.13 and 30.02 with total length of 465 ft; recommend annual assessment and monitoring of erosion site, per CLRO CES Evaluation 2008 Report; previously rated "M" [2009 SiteID:RD2062U3RM30.19]	37.810609 ° -121.385879 °	37.810609 ° -121.385879 °	1
2	0.26	0.26	Earthen Levee	Crown Surface / Depressions / Rutting	CR	M	Add appropriate gravel or road base. Grade and compact.	37.810621 ° -121.385975 °	37.810621 ° -121.385975 °	925
3	0.41	0.41	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo	37.810958 ° -121.383492 °	37.810958 ° -121.383492 °	3
4	0.47	0.47	Earthen Levee	Vegetation	WS	C	Remove the wild growth other than native grasses from the levee slopes.	37.811913 ° -121.382877 °	37.811913 ° -121.382877 °	926
5	0.56	0.57	Supplemental	DWR Erosion Survey	WS	U	Inspector Comments: 2009; no change observed; concrete piles placed on upper portion of slope as rip rap; recommend as local maintenance issue, per CLRO CES Evaluation 2008 Report; site # same as RM30.43, LM0.63; previously rated "U" [2009 SiteID:RD2062U3RM30.43]	37.813070 ° -121.383100 °	37.813070 ° -121.383100 °	2
6	1.05	1.05	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.817725 ° -121.378590 °	37.817725 ° -121.378590 °	927
7	1.06	1.06	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.819371 ° -121.377999 °	37.819371 ° -121.377999 °	948
8	1.08	1.11	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.818127 ° -121.378739 °	37.818604 ° -121.378986 °	949
9	1.20	1.21	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: No Change observed; pocket just above toe riprap; dense vegetation growth since 2006 survey; recommend as a local maintenance issue, per CLRO CES Evaluation 2008 Report; site # same as RM31.12, LM1.25; previously rated "U" [2009 SiteID:RD2062U3RM31.12]	37.819290 ° -121.378880 °	37.819290 ° -121.378880 °	4
10	1.27	1.27	Earthen Levee	Trim / Thin Trees	LS	C	Trim trees to at least five feet above ground level.	37.819782 ° -121.377471 °	37.819782 ° -121.377471 °	947
11	1.37	1.37	Earthen Levee	Vegetation	LS	M	Elderberries are blocking visibility and flood fight capability.	37.820856 ° -121.377058 °	37.820856 ° -121.377058 °	946

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River				Left	5.63	10/30/2009 12/10/2009	John Paasch

  

LMR No	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
12	1.42	1.43	Supplemental	DWR Erosion Survey	WS	M	Inspector Comments: 2009: sliding at base; tree root exposed; visible man-made trail from crown to toe; recommend as a local maintenance issue, per CLRO CES Evaluation 2008 Report; site # same as RM31.3, LM1.45; previously rated "M" [2009 SiteID:RD2062U3RM31.28]	37.821380 ° -121.376900 °	37.821380 ° -121.376900 °	5
13	1.53	1.53	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: Active rodent holes found on landside slope.	37.821266 ° -121.374799 °	37.821266 ° -121.374799 °	945
14	1.78	1.78	Earthen Levee	Trim / Thin Trees	WS	C	Trim trees to at least five feet above ground level.	37.820875 ° -121.370549 °	37.820875 ° -121.370549 °	928
15	2.84	2.84	Earthen Levee	Encroachments	CR	C	Debris Inspector Comments: Concrete block near levee crown	37.816323 ° -121.353748 °	37.816323 ° -121.353748 °	944
16	2.89	2.89	Earthen Levee	Encroachments	CR	C	Debris Inspector Comments: Mower clippings piled near levee crown.	37.816304 ° -121.352799 °	37.816304 ° -121.352799 °	943
17	3.62	3.62	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows. Inspector Comments: rodents off slope	37.817341 ° -121.343296 °	37.817341 ° -121.343296 °	942
18	3.77	3.77	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Mower clippings piled on levee slope.	37.816804 ° -121.341188 °	37.816804 ° -121.341188 °	941
19	3.87	3.87	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.818085 ° -121.340568 °	37.818085 ° -121.340568 °	940
20	4.05	4.05	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Mower clippings piled near levee crown on waterside slope.	37.820662 ° -121.340198 °	37.820662 ° -121.340198 °	939
21	4.22	4.24	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.820341 ° -121.337864 °	37.820221 ° -121.337587 °	938
22	4.36	4.36	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Mower clippings piled near levee crown on waterside slope.	37.819506 ° -121.335572 °	37.819506 ° -121.335572 °	937
23	4.44	4.44	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Mower clippings piled near levee crown on waterside slope.	37.818823 ° -121.334324 °	37.818823 ° -121.334324 °	936
24	4.68	4.72	Earthen Levee	Vegetation	LS	C	Control annual grass and weeds on the levee slopes and easements.	37.815771 ° -121.334471 °	37.815298 ° -121.334927 °	935

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2009**

**Reclamation District No. 2062 Stewart**

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River				Left	5.63	10/30/2009 12/10/2009	John Paasch

  

LMR No	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
25	5.12	5.12	Earthen Levee	Encroachments	WS	C	Debris Inspector Comments: Concrete debris left on waterside slope.	37.809601 ° -121.335778 °	37.809601 ° -121.335778 °	934
26	5.42	5.42	Earthen Levee	Animal Control	LS	C	No rodents visible, but rodent burrows visible; need to backfill and compact or grout borrows.	37.807316 ° -121.331815 °	37.807316 ° -121.331815 °	933
27	5.43	5.43	Earthen Levee	Encroachments	LS	C	Debris Inspector Comments: Concrete headwall	37.807297 ° -121.331651 °	37.807297 ° -121.331651 °	932
28	5.46	5.46	Earthen Levee	Encroachments	LS	C	Prunings	37.807325 ° -121.331003 °	37.807325 ° -121.331003 °	931
29	5.48	5.48	Earthen Levee	Vegetation	LS	C	Remove the wild growth other than native grasses from the levee slopes.	37.807359 ° -121.330775 °	37.807359 ° -121.330775 °	930
30	5.54	5.60	Earthen Levee	Vegetation	WS	C	Control annual grass and weeds on the levee slopes and easements.	37.807460 ° -121.329574 °	37.807558 ° -121.328409 °	929

**\* Location**

LS : Land Side  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable      PO : Partially Obstructing      C : Corrected  
M : Minimally Acceptable      CO : Completely Obstructing  
U : Unacceptable      N : Not Inspected